Rab27 large deletion

TACTCACGAAATAACCACGTTCCCGTGGGAAAGGACACCTGTGCGGCGCACCTGTCGCGC

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TGCCTGTTGGCGGCCAACGAGCCCTGTAGTCTGTGCTGGGCAGCGCATGGCAACAGGTCG

GGCAGCGCACCGCCCAGAGGATCCACTGCGTTGCATCCGCAGCATCCGCACAGCCTCGGA

GTTTTCGAAGTCCTCGTGGGTCGCTTGTTTTCGTTTAGCAAACCTCTGCAAGGTGGTTGA

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CAGTCTGGTCCAGTCAGCTGAATCGCAGATTCCTTCCAGATCCTTGGAGTGACGAGTGGC

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CGGTCCTGAACGTTCCAAACGCGCTGCTACGAACGGCCATTATGACGGGCGCCAACATCG

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The following gRNA primers were used:

ATG-*rab27*-fwd: CTTCCCTCTGCAATTAGCCGGATC

ATG-*rab27*-rev: AAACGATCCGGCTAATTGCAGAGG

3’UTR-*rab27*-fwd: CTTCGATAACTGATAGCTGCGGAA

3’UTR-*rab27*-rev: AAACTTCCGCAGCTATCAGTTATC

The gRNA pair was cloned into pBFv-U6.2B, and the construct was injected into the embryos of P{nos-phiC31\int.NLS}X; P{CaryP}attP40 flies crossed to P{nos-Cas9, y+, v+} flies for germline-specific deletion of *rab27*. Candidate *rab27Crispr-KO* flies were identified by a PCR screen and confirmed by sequencing.

The primer set for PCR screen is shown below:

Screen-*rab27*-fwd: GAAAGCTGGCGCAAGCTTTGG

Screen-*rab27*-rev: CGTGGAGTACTACCGCCAGTG